



## 7,056 graduates received their scrolls at UPM's 39<sup>th</sup> Convocation

By Azman Zakaria  
Photos by Mohd Hasrul Hamdan

SERDANG, Nov 3 – Some 7,055 graduates consisting of 469 Doctor of Philosophy (Ph.D), 1,860(Master), 4,298 (Bachelor) and 428 (Diploma) received their degrees and diplomas at Universiti Putra

Malaysia's 39th Convocation which was held from October 31 to November 3, 2015.

UPM Tuanku Chancellors, Sultan Sharafuddin Idris Shah conferred the Ph.Ds, Masters, bachelors and diplomas to the graduates at the first session on the first day of the ceremony, at UPM's Main Hall of Sultan

Salahuddin Abdul Aziz Shah (PKKSSAAS) Arts and Culture Centre.

The presentation of degrees was spread out in eight sessions for four days and was officiated by three UPM Pro-Chancellors - Tan Sri Dato' Setia Dr.Nayan Ariffin at the second session on October

31, the fifth session on November 2 and the seventh session on November 3; Tan Sri Lim Ah Lek at the third session (November 1), sixth (November 2) and eighth session (November 3) and Tan Sri Mohd Bakke Salleh at the fourth session on November 1. During the convocation,

UPM conferred the Honorary Doctor of Science to Science Advisor to Prime Minister, Professor Emeritus Tan Sri Dr.Zakri Abdul Hamid; Honorary Doctor of Plantation Management to United Malacca Bhd Chairman, Tan Siok Choo; and Honorary Doctor of Engineering to Chief Executive Officer and owner of Westar Aviation Services Sdn Bhd, Tan Sri Syed Azman Syed Ibrahim in the first session on October 31.

The Professor Emeritus Award was presented to a former professor at the Faculty of Science, Prof. Dr. Karen Anne Crouse @ Ani Abdullah in the second session held on October 31.

UPM Vice-Chancellor, Prof. Dato' Dr Mohd Fauzi Ramlan said a graduate in Bachelor of Agriculture Science, Ermelia Rohayu Ramlan was picked for the university's four awards - Chancellor's Gold Award Medal, Royal Education Gold Award Medal (Bumiputera), Alumni Gold Award and Gold Award Medal of Professor Emeritus Tan Sri Dr .Rashdan Baba while Doctor in Veterinary Medicines graduate, Ng Geok Lim obtained two awards - Royal Education Gold Award Medal (non-Bumiputera) and Yayasan Pak Rashid Gold Award Medal.



Prof. Dato' Dr Mohd Fauzi Ramlan with seven university award winners

UPM wishes Happy New Year 2016 to its staff, students and readers of Tribun Putra

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## QS WORLD UNIVERSITY RANKINGS TOP 50 UNDER 50

### UPM advances on all fronts, 38<sup>th</sup> in world's ranking

By Syifarida Muhamad Zaki

SERDANG – In a superlative display of achievement in all aspects, Universiti Putra Malaysia (UPM) was listed on the 38th position in the "QS Top 50 under 50" which it entered for the first time as revealed by Quacquarelli Symonds (QS) recently. University assessment in QS Top 50 under 50 is based on the same criteria set by QS World

University Rankings (WUR) 2015 – academic reputation, employer's integrity, research and internationalization programmes. The review is for universities set up after the year 1965.

"QS Top 50 Under 50" ranking was introduced by QS in 2013 where the world's 50 top universities under 50 years old in operation are put up for review.

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Come out of your comfort zone for your own good – Sultan Sharafuddin

By Khairul Anuar Muhamad Noh

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## Graduates must be excellent, holistic in all aspects

By Azman Zakaria

Photo by Noor Azreen Awang

**SERDANG, Oct 31** - Universiti Putra Malaysia (UPM) Pro Chancellor, Tan Sri Dr Nayan Ariffin advised graduates to be excellent and holistic, not only academically but also in all aspects.

He said graduates with vast knowledge, good moral and manners and mindset were vital in producing an all-round and balanced Malaysian citizen.

"I believe that if a university could produce graduates of such traits, this will be the greatest contribution from the university for development and civilization of a nation," he said at the second session of UPM's 39th Convocation here.

He also presented degrees and diplomas to 906 graduates.

Tan Sri Dr Nayan also said graduates



should be prepared and equip themselves with entrepreneurship elements and able to create jobs instead of looking for one in view of the world's economic uncertainties which had posed challenges to graduates in finding jobs.

Tan Sri Dr Nayan added that the process of learning should not just stop at trying to secure a job but that graduates should also continue to boost their knowledge and skills.

"Turn today's success into a platform where you can make meaningful contribution for the betterment of the society, and human civilization to be of more quality, integrity and synergy in tandem with the environment," he said.

Congratulating the graduates, he said he hoped that their achievements could motivate them to strive for more successes and as a catalyst to make meaningful contributions to their family and the community.

"I hope that our graduates will never forget the sacrifices made by their parents and families but view them as the strengths and catalyst for their success today. Who are you without them," he said.



By Azman Zakaria

Photo by Noor Azreen Awang

**SERDANG, Nov 1** - Graduates must always remember and appreciate the sacrifices made by their parents that allow them to succeed in their studies and be known as graduates, said Universiti Putra Malaysia (UPM) Pro Chancellor, Tan Sri Lim Ah Lek.

Hence, he said graduates must remain devoted to their parents who had sacrificed a lot to see them successful in their life. Graduates

should be grateful to their parents who were always there with and for them in difficult and good times, he added.

"I realized that not all graduates come from well-to-do families. Therefore, they must appreciate the sacrifices of their parents who have sent them to university until they are able to complete their studies and are now known as graduates," he spoke at the third session of UPM's 39th Convocation here where he presented degrees and diplomas to 893 graduates.

In congratulating the parents and families of the graduates, he said inspirations they obtained from their parents could have allowed them to face all challenges, pressures and obstacles while studying in a more matured, better and successful manner.

He added that graduates should never forget their parents' sacrifices in terms of their time and energy spend on them, their financial resources and patience.

He also said the world's economic

uncertainties posed a challenge to graduates in finding a job, therefore, they should be ready to equip themselves with business traits and able to create jobs.

Based on a study on Graduates' Efficiency in 2014, UPM achieved 82.2 per cent where its graduates were able to secure a job, become entrepreneurs and pursue their study to a higher level.

"This is the highest score to have been made by a public university.

"At the same time, in this era of borderless world, I believe that the graduates produced by UPM will be able to fulfil the market workforce requirements not only in the country but also globally," he said.

Towards this end, he said UPM should ensure that its graduates possessed that much-needed global workforce skills - competency and dynamism - in line with the formation of the 2015 Asean Community which will witness stiff competition in the job market, particularly in the context of the demand for skilled and talented workforce.

## Continue studying as lifelong learning will lead to excellence in life

By Azman Zakaria

**SERDANG, Nov 1** - Universiti Putra Malaysia (UPM) Pro Chancellor, Tan Sri Mohd Bakke Salleh reminded graduates to continue studying as lifelong learning will lead to excellence in life.

"Securing a job does not mean that the learning process has stopped. Don't ever think that the degree you obtained today is sufficient as it is definitely not the ticket to success and one that could see you through in your life amidst this challenging world.

"Continue with your relentless efforts to gain knowledge and skills because today's success serves as a platform for you to make meaningful contributions for the formation of a society and human civilization that are of more quality, integrity and synergy in tandem with the environment," he said at the fourth session of UPM's 39th Convocation ceremony.

Tan Sri Mohd Bakke said it is a reality that needed to be made known

that academic qualification does not guarantee success in careers.

This is because there are many entrepreneurs and corporate leaders who succeeded in their life without having high academic background such as Bill Gates. Such people, he said, had some plus-points and advantages that differentiated them from their generational groups, including their positive attitudes, interests and views on matters they were working on.

Adding that they were open minded, positive and had confidence in themselves, these people also had a clear vision and projection in their life.

"Therefore, with these advantages in terms of academic qualification, being open minded, positive and not that choosy when it comes to work, graduates are actually capable of controlling and leading the job market to attain more accomplishments," he said.

He added that it was inevitable for graduates to possess a good command of the English Language which



formed the basis in all aspects as it is an international language.

"Even if you are working in the public sector and you are proficient in English, you will have the edge in dealing with other agencies," he said, adding that this, however, did not mean that Bahasa Malaysia should be sidelined.

He also stated that as graduates were UPM ambassadors, it is hoped that they could play their respective roles in projecting UPM's good image in the international arena.

## 7,056 graduates received their scrolls at UPM's 39th Convocation

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Tunku Chancellor conferred the awards to the recipients. His Royal Highness also gave away the Putra Agribio Award to Daniel Mohan Jacob who is a graduate in Doctor of Veterinary Medicines; Doctor of Philosophy Gold Award to Tumirah Khadirin (PhD in Nano Science), Institut Teknologi Maju Gold Award in Master with Thesis to Nur Atiqah Mohamad Aziz (Master of Green Technology), Institut Teknologi Maju MTDC Annual Book Award (Innovation/Commercialization/Business) to Phuah Kit Teng (PhD in Agri Business), Faculty of Agriculture; and Syed Keechik award to Yap Ee Lyn (Bachelor of Science (Honours) Microbiology of the Faculty of Biotechnology and Biomolecular Sciences).

Some 37 graduates who majored in Bachelor of Science Honours (Cell and Molecular Biology) introduced for the first time in the university, 48 graduates in Bachelor of Science (Honours) Biotechnology and 177 who majored in the inaugural

Bachelor of Education (Primary School Education) with Honours also received their scrolls at the convocation during the first session on October 31 while 42 graduates in Bachelor of Parks and Recreation Science received theirs in the fourth session of the ceremony.

Wendy Yeo Wai Yeng of Medical Biotechnology, Bioscience Institute, who is the first student to have graduated in PhD. Dual Degree programme with Universite Montpellier 2 (UM2) received her scroll at the third session (November 1).

Disabled student, Suhazli Muhammad was presented his degree in Bachelor of Computer Science (Multimedia) in the fifth session (November 2).

Among athletes of the Commonwealth Games and Asia Games who graduated were Farah Ayuni Yahya, Noorhasliza Md Ali and Siti Shahida Saad (Women's Hockey), and Mohd Shukri Abdul Motalib (Men's Hockey).

## UPM advances on all fronts, 38th in world's ranking

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UPM Vice-Chancellor, Professor Dato' Dr. Mohd Fauzi Ramlan, described UPM success in being listed as among 50 best universities under 50 years old in the world as outstanding and excellent.

"It provides an impetus to UPM progress since its establishment as a university in 1971 and UPM progress in enhancing its international profiling.

"To be listed as the world's 38th top university with a score of 39.7 percent for the first time of its entry

is something that we are very proud of and this conquest is for all the hard works and collective efforts by UPM community in ensuring that UPM remains steadfast in achieving excellence of international reputation and standing," he said.

Earlier this year, UPM improved its position in the QS World University Ranking when it moved to 331st position from 376th in 2014.

This is the first time this year that UPM submitted its entry in the "QS Top 50 Under 50".

## Come out of your comfort zone for your own good - Sultan Sharafuddin

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**SERDANG** - Graduates should be bold enough to take the risk and come out of their comfort zone to challenge their own self to be a better person.

Universiti Putra Malaysia (UPM) Tunku Chancellor, Sultan Sharafuddin Idris Shah said that graduates should prove their intellectual ability by being able to guide the society to prepare them for future challenges.

"Get out of the ordinary frame of mind and mould new thinking that can challenge the norm to assist the country to be a developed and sovereign state.

"I wish to remind our graduates that a university serves as a platform to transform the mind, for you to think out of the box, understand the direction and those virtuous and noble aspirations," he said.

His Royal Highness said at UPM's 39th Convocation at the Main Hall of Sultan Salahuddin Abdul Aziz Shah Art and Culture Centre which was held from October 31 to November 3, 2015.

The ceremony saw the graduation of 7,056 graduates, of whom 469 are PhD holders, 1,860 Master's degree, 4,299 Bachelor and 428 Diploma, with the number of PhD holders the highest to have been produced by a public university in Malaysia.

Sultan Sharafuddin, who is also the Sultan of Selangor, said in line

with UPM's slogan "Agriculture. Innovation. Life", UPM had set up a National Food Security Centre to overcome the problems relating to food supply in Malaysia.

"Towards this end, UPM has held various new programmes in the field of agriculture engineering, economic agriculture, production and processing that can assist the nation in providing the needs for food and farming," he said.

Sultan Sharafuddin also called on universities to attract world's renowned experts to work with them.

"Graduates should understand and tackle the problems faced by the community head-on instead of doing so via the cyber world and borderless technology," he added.

Sultan Sharafuddin also expressed his hope for UPM to continue to be at the forefront of agriculture niche by giving direct impacts to the society and the country.

At the convocation, Sultan Sharafuddin bestowed the Honorary Doctor of Science degree to Prof. Emeritus Tan Sri Dr. Zakri Abdul Hamid, Honorary Doctor of Plantation Management to Tan Siok Choo and Honorary Doctor of Engineering to Tan Sri Syed Azman Syed Ibrahim.

Professor Dr. Karen Ann Crouse @ Ani Abdullah, meanwhile, was conferred the Professor Emeritus award.



## UPM's agriculture legacy stays among the world's topmost varsities

By Azman Zakaria

**SERDANG, Oct 27** - From a small, unknown set-up as an Agriculture School on May 21, 1931, Universiti Putra Malaysia (UPM) has made a quantum leap through numerous landmark achievements and contributions that it has made in the transformation and development of agriculture in the country.

At its 39th convocation ceremony starting Saturday (October 31) to November 3, UPM is witnessing the graduation of its 7,056 graduates, comprising 469 holders of Doctor of Philosophy (Ph.D), 1,860 in Master's Degree, 4,299 (Bachelor) and 428 (Diploma).

The theme for this year's convocation is "Soaring Upwards" in keeping with its premiership status and outstanding achievements in boosting the field of agriculture in the country.

Reaching the age of 84 on May 21 this year since its inception as an Agriculture School, its academic reputation remains on top at the international level when it continues to excel

as a leader in agricultural education, not only in the country. UPM has also made its presence felt in the global rankings.

One of its many outstanding success stories is when UPM was listed as the world's 45 for the Best Global Universities for Agricultural Sciences as issued by the U.S. News & World Report early this month. It surges from its 54th position in 2014.

In South East Asia, UPM is listed as the best University and the seventh in Asia for Best Global Universities for Agricultural Sciences.

"The commitment, spirit and dedication by UPM community in boosting the field of agriculture has been recognized through this global ranking, indirectly proving UPM's niche in Agricultural Sciences," said UPM Vice-Chancellor, Prof. Dato' Dr. Mohd. Fauzi Ramlan.

"We are proud of the achievements as our determination and commitment have brought us to where we are now as amongst the world's top universities," he said.

Upgraded to Kolej Pertanian Malaya in 1947 and later known as Universiti Pertanian

Malaysia in 1973, its status as a higher learning institution with the agriculture sector as its thrust is pre-determined through the establishment of three central faculties and one basic division - Faculty of Veterinary Medicine and Animal Sciences, Faculty of Forestry, Faculty of Agriculture, and a Division of Foundation Studies.

Outstandingly, the field of agriculture driven by UPM is not only confined to the planting of crops for daily consumption but it also encompasses a wider scope to include livestock breeding, veterinary and forestry, plus the teaching of multiple disciplines of study to fit with the needs and demands of the people and the country.

Despite the change in name to Universiti Putra Malaysia in April, 1997, to reflect on its status as a higher learning institution specializing in various disciplines of study, its position as a university to empower the agriculture sector, is always maintained, making UPM to be more renowned.

The emphasis on agriculture is reflected by UPM through its tagline "Agriculture.



Innovation. Life." which focuses on support and commitment to keep agriculture as the main thrust of its study.

UPM remains one step ahead from other institutions of higher learning with the percentage of marketability of its graduates which stood at 82.2 percent - the highest in the country. Its graduates managed to secure jobs within three months after

the convocation ceremony. The percentage for the year 2014 was announced by the Education Ministry this year.

"This clearly proves that UPM's determination and resilience is always upheld to produce graduates who can meet the global criteria as well as that of their employers', and this, ultimately, will raise their standing and positive image," Prof. Dato' Dr Mohd Fauzi said.

From its early kick-start as an Agriculture School, UPM has, along the way, created a legacy of excellence, with significant and high impact innovations it has contributed towards the national agriculture development landscape.

It has also become the main reference for the enhancement of quality in education as well as research in agriculture.



## UPM holds 'Korban PUTRA UPM - Vietnam'

By Azman Zakaria

**HO CHI MINH (VIETNAM), Sept 25:** Universiti Putra Malaysia (UPM) organized Majlis Korban PUTRA UPM-Vietnam 2015, in two provinces in Vietnam in conjunction with this year's Hari Raya Aidil Adha.

The event was held at District 8, Ho Chi Minh City, and Tay Ninh Province. The official ceremony and handing over of cattle were held at the Jamil'ul Anwar Mosque, District 8 in Ho Chi Minh City on September 25. Slaughtering of cattle at Tay Ninh Province was carried out in seven villages on September 25 and 26.

The cattle were slaughtered at Darul Naim Lilmuslimin, Noorul Islam, Noorul Iman, Noorul Ehsan, Almubarah, Jamiul Nia'mat and Noorul Nia'mat mosques.

It was held with the cooperation of the Malaysian Consulate-General in Ho Chi Minh City, Education

Malaysia (MEPC) Ho Chi Minh and the Association of Islamic Representatives of Vietnam.

The success of UPM's Co-curriculum and Student Development Centre (CSDC) in organizing a community service programme in Vietnam in May this year, has spurred UPM to continue with its international social service projects.

The continuation of this sustainable and highly impactful community service programme will also drive UPM's visibility in the international arena.

The mission will also result in closer ties among the Islamic community in ASEAN, more so with Malaysia being the ASEAN chairman.

This high-impact volunteerism project which also involved UPM students was an attempt to translate the knowledge and skills of students in contributing towards the society in other countries.

## 1,000 seedlings up for sale at UPM Agriculture Expo & Convo



By Syfarida Muhamad Zaki  
Photo by Marina Ismail

**SERDANG, Nov 3** - About 1,000 fruit seedlings, including durian clones, were put up for sale during the 39th convocation of Universiti Putra Malaysia (UPM) at its Agriculture Exposition.

The exposition featured 29 innovation research sites, the majority of which displayed a wide variety of agriculture produce. The expo was opened by UPM Vice-Chancellor, Prof. Dato' Dr. Mohd Fauzi Ramlan.

Among the more innovative items produced by UPM itself, featured at the exposition were the "Afdhal" cooking oil which was made of natural herbal extracts. It could reduce the rate of oil absorption in food and be used repeatedly up to 80 times.

"This cooking oil is scientifically formulated using the main ingredient, that is palm oil and herbs that can reduce oil absorption in fried food up to 85 per cent, and also minimise the risk of being inflicted with cancer and

cardiovascular diseases.

The exposition which was open for free to the public and organized by UPM Taman Pertanian Universiti at Bukit Ekspo lasted for six days from Oct 30 to November 4, 2015, with price offers from as low as RM10 for the plants, saplings and others agriculture produce.

Some of the durian seedlings put up for display at the expo which is open from 10am to 10pm included the D24 clone, D 99 (small corp), D 168 (Hajah Hasmah) and D 197 (Raja Kunyit). Rambutan seedlings of R191 type, small mango tree of MA 224 Cok Anan, jackfruit of J33 species and guava of GU15.

This year's expo was themed "Anchoring Agriculture" in line with UPM's objectives to encourage the public to be involved in agriculture activities.

In line with the theme, the expo also offered Klinik Pengembangan Pertanian where 12 UPM agriculture experts were present to explain and teach members of the public the right

methods to carry out plantings such as grafting, wedging and soffitng as well as problems faced like urban farming.

The clinic also held demonstrations on how to plant vegetables using fertigation and hydroponic ways, the right methods to plant and expand ornamental plants, planting of vegetables the growbag method, how to get rid of pests, planting the topsy tussy method like bonsai and terrarium, growing of vegetables in unused containers the "piskiponik" way, floral and fauna decoration in aquariums, preparation of healthy food, preparation of effective micro-organisms and herbal goods for bath.

Orchid lovers had the chance to buy various species of attractive blooms at cheaper prices at Astaka Orkid, Bukit Ekspo. Several other activities for visitors included an orchid flower arrangement contest, orchid research expo and talks on ways to plant and treat orchids from fungal infections.





## Pelajar IPPH cipta aplikasi 'Salam Halal KL' kesan restoran halal tulen

Oleh Noor Eszereen Juferi  
Foto Oleh Marina Ismail

SERDANG – Pelajar Institut Penyelidikan Halal (IPPH), Universiti Putra Malaysia (UPM) Muhammad Syukri Metussin berjaya mencipta aplikasi telefon pintar 'Salam Halal KL' menggunakan 'Live AR View' iaitu teknologi Augmented Reality (AR) GPS menggunakan kamera peranti untuk melihat restoran halal sekitar kawasan pengguna.

Beliau berkata, 'Salam Halal KL' mempunyai ciri inovatif membolehkan pengguna mencari restoran terdekat yang disahkan halal oleh JAKIM

secara live melalui skrin telefon pintar pengguna.

"Penggunaan teknologi AR adalah yang pertama di dunia serta mempunyai ciri-ciri rangkaian sosial sendiri yang membolehkan pengguna untuk berkongsi gambar hidangan makanan mereka daripada restoran berkenaan," katanya.

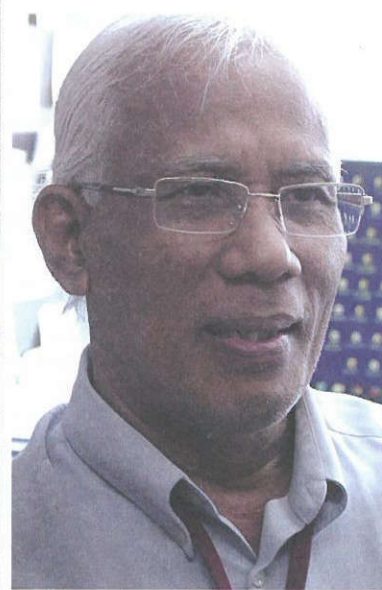
Muhammad Syukri, pelajar Master Sains di IPPH UPM dibantu oleh Ketua Laboratori Polisi dan Pengurusan Halal, IPPH, Prof. Madya Dr. Nurdeng Deuraseh dan Pensyarah Fakulti Sains Komputer dan Teknologi Maklumat UPM, Prof. Madya Dr. Rodziah Atan. Katanya, aplikasi ini turut memberi

jaminan premis makanan adalah halal yang diperakui oleh pihak Jabatan Kemajuan Islam Malaysia (JAKIM).

"Walaupun pihak JAKIM mewajibkan premis makanan untuk memaparkan sijil halal, tetapi masih terdapat peniaga yang memalsukan sijil halal. Dengan adanya aplikasi ini memudahkan pengguna beragama Islam untuk berhati-hati dalam pemilihan premis makanan," katanya.

Aplikasi ini boleh dimuat turun secara percuma di Google Playstore. Pada masa ini aplikasi ini hanya terhad di kawasan Kuala Lumpur dan perancangan sedang dilakukan untuk diperluaskan di pasaran global.

## Mesin penanam cara pneumatik memudahkan kenaf ditanam



Oleh Azman Zakaria  
Foto oleh Marina Ismail

SERDANG, 3 Sept - Penanaman biji benih kenaf dan bijiran lain termasuk jagung kini boleh dijalankan secara ekonomik, mudah dan tersusun, serta dalam masa yang lebih singkat melalui penggunaan mesin penanam secara pneumatik.

Melalui penggunaan mesin itu, hanya satu benih dijatuhkan ke dalam lubang alur tanah yang digembur ketika jentera mesin itu bergerak, lantas menjimatkan penggunaan benih berbanding kaedah penggunaan jentera biasa yang memerlukan tiga benih bagi setiap lubang.

Ia juga dapat melakukan penanaman membabitkan kawasan seluas 1.7 hektar dalam masa sehari tanpa menggunakan

tenaga buruh yang ramai.

Mesin ini yang digerakkan dengan ditarik oleh traktor mula dibangunkan oleh penyelidik Universiti Putra Malaysia (UPM) pada 2010 dan siap pada 2012.

Ujian penggunaannya dalam penanaman kenaf dilakukan pada tahun itu di Taman Pertanian Universiti (TPU) dan terbukti berjaya. Mesin itu yang dibangunkan membabitkan kos RM28,000 kini dalam proses dipatenkan.

Ketua Pusat Penyelidikan Teknologi Perladangan Pintar UPM, Prof. Ir. Dr. Desa Ahmad berkata, antara komponen mesin itu ialah pembuka alur, ceper penutup alur, penyelarar kedalaman tanah, tangki biji benih, kipas vakum dan alat meratakan tanah.

Saiz piring agihan biji benih atau plat meter (metering plate) juga direkabentuk berbeza-beza berdasarkan saiz biji benih atau bijiran yang hendak ditanam sama ada kenaf, jagung, bawang putih atau seumpamanya.

Beliau berkata kelajuan traktor yang menarik mesin itu akan menentukan jarak antara biji benih yang dijatuhkan dan ditanam. Justeru, ia tidak boleh bergerak terlalu laju atau terlalu perlahan, sebaliknya mesti sentiasa pada tahap kelajuan yang sama.

Jarak yang sesuai bagi benih kenaf ialah 30 cm antara satu sama lain, manakala benih jagung 75 cm.

"Istimewanya mesin ini ialah boleh menjatuhkan dan menanam benih dalam empat barisan secara sekaligus. Oleh itu penanaman dapat dilakukan lebih pantas dan dalam barisan yang lurus.

## Penyelidik Fakulti Pertanian temui formula atasi kulat, tompokan hitam pada betik



Oleh: Azman Zakaria  
Foto: Marina Ismail

SERDANG, 19 Ogos - Pengusaha tanaman betik, pisang dan mangga sering berdepan masalah penyakit lepas tuai - bintik pusing atau 'Antraknos' (Anthracnose) - iaitu buah yang cepat berbintik hitam, seterusnya menjadi tompok yang membesar dan mengikatkannya menjadi busuk. Bintik pusing yang berpunca daripada serangan kulat *Colletotrichum gloeosporioides* menurunkan sehingga 80% hasil buah yang mencapai standard pasaran.

Masalah ini bagaimanapun boleh ditangani. Hasil inovasi penyelidik Universiti Putra Malaysia (UPM) berjaya menemui kaedah membantutkan pertumbuhan kulat berkenaan.

Penyelidik Jabatan Perlindungan Tanaman, Fakulti Pertanian UPM, Prof. Madya Dr. Kamaruzaman Sijam dan bekas pelajar doktor falsafah, Dr. Farah Farhanah Haron yang semasa pengajiannya, telah berjaya menghasilkan formula memastikan kulit buah-buahan itu lebih kuat bagi berdepan serangan kulat.

Dr. Kamaruzaman berkata melalui inovasi itu, buah berkenaan dapat bertahan daripada serangan kulat sehingga 10 hari (suhu bilik) dan 30 hari (simpanan sejuk), yang akan

membolehkannya lebih mudah dieksport dan dijual.

Katanya, inovasi yang dihasilkan ialah menggunakan ekstrak daripada daun pokok Allamanda atau dikenali juga dengan nama pokok Bunga Loceng.

Terdapat lima jenis atau varieti pokok Allamanda, termasuk *Allamanda Cathartica*, *Allamanda Blanchettii*, dan *Allamanda Oenotheraefolia* tetapi yang terbaik ialah *Allamanda Cathartica Varieti 'Jamaican Sunset'* kerana anti kulat padanya paling aktif dan pokok jenis ini mudah didapati dan ditanam.

Beliau berkata kajian di makmal dimulakan tiga tahun lalu oleh Dr. Farah Farhanah, dan ia menunjukkan hasil selepas dua tahun.

Menurut Dr. Kamaruzaman, daun Allamanda dikeringkan sebelum dikisar untuk dijadikan serbuk. Serbuk daun diekstrak dan diformulasi dengan menjadikan ia formula cecair nanoemulsi.

"Ia kemudian dilarutkan ke dalam air. Buah-buah itu kemudian dicelup atau boleh juga disembur supaya air larutan itu melitupi buah berkenaan yang akan menyukarkan serangan kulat," katanya.

Dr. Farah Farhanah pula berkata produk antikulat daripada ekstrak daun Allamanda dapat mengawal bintik pusing bukan saja pada buah betik, malahan buah pisang dan mangga.

"Pengaplikasian produk ini pada permukaan buah sebagai bahan salutan bukan saja dapat mengawal penyakit antraknos secara spesifik, malah dapat mengekalkan kesegaran buah, melambatkan proses pemasakan

buah tanpa mempengaruhi kemanisan buah dan menurunkan kualiti buah," katanya.

Justeru katanya, produk itu dapat meningkatkan pendapatan eksport negara, selain ia mesra alam, bebas kimia dan tidak membahayakan manusia serta alam sekitar.

Beliau berkata, hasil kajian itu kini dalam perancangan untuk diperluaskan (scale up) bagi pengeluaran berskala industri dan perbincangan diadakan bersama pengusaha tempatan yang berminat untuk mengeluarkan serta memasarkan produk itu.

Hasil penyelidikan itu memenangi dua Anugerah Pingat Emas bagi Inovasi di Malaysian Agricultural Innovation Challenge (MAGIC) 2014 dan di International Invention & Innovation Exhibition (ITEX) 2015.







## Seminar antarabangsa linguistik di FBMK lulus 8 resolusi

Oleh Azman Zakaria  
Foto oleh Nasrul Izam

**SERDANG, 4 Nov** - Seminar antarabangsa Linguistik dan Pembudayaan Bahasa Melayu IX di Fakulti Bahasa Moden dan Komunikasi (FBMK) Universiti Putra Malaysia (UPM) baru-baru ini meluluskan lapan resolusi, termasuk menyatakan bahawa perancangan taraf dan perancangan korpus bahasa Melayu perlu diperhebat.

Ia juga menyatakan bangsa ASEAN perlu berganding bahu dan berjalan seiring untuk menepis segala rintangan dan mengikis kecemburuan demi meneroka kekayaan serta mencipta kesejahteraan dalam memperjuangkan pemartabatan bahasa Melayu.

Resolusi itu dibacakan Pensyarah Kanan, Jabatan Bahasa Melayu FBMK, Dr Hasnah Mohamad yang juga Pengerusi Bersama seminar berkenaan, sebelum majlis penutupan. Seminar dua hari

itu dianjurkan bersama FBMK dan Dewan Bahasa dan Pustaka (DBP) bertemakan "Bahasa Melayu sebagai Bahasa ASEAN."

Ia juga menyatakan bahawa bahasa Melayu dapat dimanifestasikan sebagai bahasa ASEAN dalam pelbagai bentuk dan cara yang melibatkan kerjasama semua pihak dalam pelbagai bidang. Jalinan kerjasama antara institusi seperti DBP serta badan-badan seperti MABBIM, MASTERA dan FOKEPS pasti dapat menjatidirikan bahasa Melayu sebagai wahana paling berkesan di abad ini.

Ia juga menyatakan pihak yang bertanggungjawab mengenai pembinaan dan pengembangan bahasa Melayu seperti DBP, Pusat Pembinaan dan Permasalahatan di Indonesia, serta Dewan Bahasa dan Pustaka Brunei Darussalam harus mempergiat kegiatan bahasa dan meningkatkan sikap positif serta disiplin masyarakat

dalam berbahasa.

Resolusi lain yang dicapai termasuk;

- Kesatuan politik dan ekonomi ASEAN perlu merancang dengan rapi hubungan diplomatik dan ekonomi dalam kalangan negara anggota ASEAN agar berusaha meningkatkan sinergi supaya bersatu memartabatkan bahasa Melayu sebagai bahasa ASEAN.

- Pembangunan prasarana Teknologi Maklumat dan Komunikasi, pembangunan sistem seperti Pusat Rujukan Persuratan Melayu serta Portal Gerbang Kata DBP perlu diperbanyakan bagi membantu meningkatkan penguasaan bahasa Melayu dalam kalangan bangsa ASEAN; dan

- Bahasa yang digunakan oleh pihak media di radio, televisyen, akhbar dan media sosial hendaklah menepati tujuh langkah pembentukan istilah yang digariskan oleh DBP.



## iENFORCE bincang kepentingan bidang forensik alam sekitar

Oleh Noor Ezereen Juferi  
Foto Marina Ismail

**PUTRAJAYA** - Fakulti Pengajian Alam Sekitar (FPAS), Universiti Putra Malaysia (UPM) menganjurkan persidangan antarabangsa International Conference in Environmental Forensic 2015 (iENFORCE 2015) bagi meningkatkan kepentingan bidang forensik alam sekitar.

Naib Canselor UPM, Prof. Dato' Dr Mohd Fauzi Ramlan berkata persidangan itu bertujuan meningkatkan kepentingan bidang forensik alam sekitar dan memberi peluang kepada ahli akademik dan penggubal dasar untuk berkongsi pengetahuan berkaitan forensik alam sekitar.

"Bidang ini berkaitan dengan kajian serta penyiasatan saintifik berkaitan pencemaran udara, air, tanah dan biota bagi mengelakkan risiko pencemaran alam sekitar serta menyokong pihak berkuasa dalam meningkatkan

pengurusan sumber asli dan persekitaran," katanya semasa merasmikan persidangan iENFORCE 2015 di sini.

Lebih 100 kertas kerja dibentangkan pada persidangan itu yang dihadiri peserta dari 11 negara antaranya Ukraine, Mongolia, Indonesia, India dan Kuwait.

Pengerusi iENFORCE 2015 Dr. Mohd Yusoff Ishak berkata program itu merangkumi pembentangan kertas kerja dan perbincangan dalam sesi plenari, sesi poster serta sesi perbincangan panel dalam topik forensik alam sekitar.

"Kemunculan bidang alam sekitar forensik membolehkan ahli forensik alam sekitar mengenal pasti bahan kimia yang dibebaskan ke persekitaran menggunakan pendekatan terkini," katanya.

Beliau berkata, persidangan itu disertai pakar terkenal dari Australia serta Jepun, dan turut dihadiri Ketua Penolong Pengarah Polis Diraja Malaysia (PDRM),

ACP Hussein Omar Khan yang berkongsi pengalaman beliau sebagai salah seorang daripada penyiasat negara pertama yang tiba di lokasi tragedi pesawat Penerbangan Malaysia MH17 yang terhempas di Donetsk, Ukraine untuk mengecam mangsa nahas yang berlaku pada 17 Julai 2014.

Beliau yang juga merupakan Komander Disaster Victim Identification team atau dikenali sebagai D13 PDRM berkongsi informasi mengenai struktur pasukan DVI Malaysia, misi pemulihan, pusat ante mortem, protokol DVI dan cadangan penambahbaikan di masa depan.

Sementara itu, buat julung kalinya, iENFORCE Innovation Challenge diperkenalkan sebagai platform untuk pelajar pra-universiti dan diploma dalam pelbagai bidang di Malaysia bagi berkongsi minat, idea dan kepakaran masing-masing dalam mencipta inovasi khususnya dalam topik yang berkaitan alam sekitar. - UPM

## LabEx UPM di Montpellier bakal rapatkan hubungan penyelidik Malaysia-Eropah



Oleh Azman Zakaria

**MONTPELLIER (Perancis):** Penubuhan LabEx, (External Laboratory) Universiti Putra Malaysia (UPM) di Agropolis International, Montpellier merupakan satu peluang untuk merapatkan lagi kerjasama dan hubungan antara penyelidik Malaysia dan Eropah.

Pengarah Institut Kajian Dasar Pertanian dan Makanan UPM, Prof Madya Dr Shaufique Fahmi Ahmad Sidiqie berkata

melaluinya diharapkan juga UPM menjadi penghubung antara penyelidik Eropah dengan penyelidik Malaysia dan Asia Tenggara dalam kerjasama kajian berkaitan isu pertanian tropika, khususnya berkenaan pembangunan mapan, sekuriti makanan dan kelangsungan kehidupan.

"Ini adalah langkah amat strategik yang sedang kita lakukan," katanya ketika bersama delegasi UPM melawat Agropolis International di sini

baru-baru ini.

Delegasi UPM diketuai Naib Canselor Prof. Dato' Dr. Mohd. Fauzi Ramlan dalam rangka kerja seiring Memorandum Persefahaman, yang termasuk pelaksanaan LabEx, makmal virtual UPM.

LabEx Eropah UPM ini akan dibangunkan seiring dengan dua LabEx yang ketika ini sudah diwujudkan di Montpellier iaitu oleh Brazil dan Argentina.

"Saya percaya berdasarkan beberapa persamaan iklim

dengan Brazil dan Argentina, kita boleh berkongsi banyak perkara kepentingan bersama," kata Dr Shaufique Fahmi.

Beliau berkata penyelidik pertama UPM akan tiba di Montpellier untuk LabEx UPM ini sebelum hujung tahun.

"Pastinya kita akan menghantar mereka yang berkaliber sebagai wakil," katanya sambil menjelaskan nama calon akan dimuktamadkan tidak lama lagi. Mengenai pemilihan

tempat di Montpellier, beliau berkata ia adalah langkah strategik kerana sebelum ini sudah ada kerjasama dengan penyelidik Pusat Penyelidikan Pertanian bagi Pembangunan Antarabangsa Perancis (CIRAD) di Montpellier.

"Kita mempunyai penyelidik CIRAD di UPM, dan dengan wakil kita di sini (Montpellier) akan memperkukuhkan hubungan antara institusi terbabit dan dengan institusi lain di Montpellier.

## UPM - SIAZ Holding meterai MoU EPC jimat elektrik RM1.3 juta

Oleh Syfarida Muhamad Zaki  
Foto oleh Noor Azreen Awang

**KUALA LUMPUR, 10 Sept** - Universiti Putra Malaysia (UPM) dan SIAZ Holding Berhad menandatangani Memorandum Persefahaman (MoU) Kontrak Prestasi Tenaga (EPC) untuk menjimatkan kos tenaga elektrik sebanyak 30 peratus atau RM1.3 juta setahun.

Naib Canselor UPM, Prof. Dato' Dr. Mohd Fauzi Ramlan berkata EPC itu akan dilaksanakan di

Fakulti Perubatan dan Sains Kesihatan (FPSK) memandangkan fakulti itu menggunakan jumlah tenaga elektrik yang tinggi.

"UPM telah mengambil langkah pro aktif dalam melaksanakan inisiatif penjimatan dan kecekapan tenaga dengan jangkaan tarif eletriik akan meningkat pada masa hadapan.

"Justeru, ia dapat menjimatkan perbelanjaan UPM dan peruntukan itu dapat digunakan untuk tujuan lain yang lebih mendesak.

"Pelaksanaan penjimatan tenaga melalui EPC meletakkan UPM dalam keadaan selesa memandangkan kos pelaksanaan akan ditanggung oleh pihak syarikat," katanya. Beliau berkata UPM turut merancang untuk melaksanakan EPC di seluruh kampus selepas menilai keberkesanan pelaksanaan berdasarkan purata bil elektrik FPSK ialah RM380,000 sebulan.

"Kami berharap kerjasama ini mampu menjimatkan sehingga RM1.3 juta setahun," katanya.

Ketua Pegawai Eksekutif Kumpulan SIAZ Holding.

"Segala kos pelaksanaan EPC akan ditanggung oleh kami dan jika tiada penjimatan maka syarikat tidak akan mendapat bayaran daripada UPM.

"Malah, jika bil elektrik meningkat selepas pelaksanaan, syarikat pula akan membayar perbezaan kepada UPM," katanya.

Pada majlis itu, UPM diwakili Prof. Dato Mohd Fauzi manakala SIAZ Holding Berhad oleh Asrul Muniff.





# JOURNAL NEWS

By Crescentia Morais

## Pertanika journals granted "CREAM" status by Government of Malaysia

The recognition as country's leading journals is one of the highest accomplishments in the national higher education system. The ability to produce high quality research and scholarly publications which are indexed in top international databases proves that local talents are able to compete with the world renowned scientists. The indexing of scholarly local journals at international level is a crucial indicator in recognising a top academic publication.

As a Publication Incentive Scheme (CREAM), thirteen local journals that have shown remarkable performance in international databases such as Web of Science (WoS) and SCOPUS were chosen as the recipients of CREAM status. A total of 3 local journals indexed in WoS and 10 local journals indexed in SCOPUS in Science, Technology and Medicine (STM) and Arts & Humanities and Social Science (AHSS) were awarded with the recognition.

The Pertanika Journal of Social Sciences & Humanities (JSSH) and International Food Research Journal (IFRJ) were recognized as one of the local elite journals and were granted the prestigious "CREAM" status in recognition of their consistently high quality by the Ministry of Higher Education (MoHE).

In addition to a certificate of recognition, two Universiti Putra Malaysia journals were awarded a sum of RM12,500 (about US\$2900) each under the category "journals indexed in Scopus" in the fields of "Arts, Social Sciences & Humanities" and "Science, Technology & Medicine", respectively. The award was presented by Dato' Seri Idris bin Jusoh, Minister of Higher Education, Malaysia, during the launching ceremony of the National Conference on High Impact Journal Publications held on 3rd September, 2015 in Langkawi.



Two UPM journals were recognized as local elite journals and were granted the prestigious "CREAM" status.

The selection of the journals was based on the following criteria:

- Publisher must be an institution of higher learning in Malaysia.
- Journal must be printed in Malaysia.
- Journal must be indexed in the ISI or SCOPUS bibliographic database.
- Journal must be listed in the Malaysian MyCite bibliographic database.
- Journal must have a consistent and continuous publication schedule.
- Journal must have a clear scope.
- Journal must have an official and informative webpage.

"Since this is a government award, it is an important recognition for us," says Dr Nayan Kanwal, Chief Executive Editor of the UPM journals. "As a result, I hope to see more good quality, innovative research papers from Malaysia as well as beyond. This should also lead to more citations for JSSH and IFRJ and eventually a higher impact factor for the journals."

## Pertanika Bids Farewell To Eic Prof Tan



Professor Dr. Tan Soon Guan: a tribute to his diligence and commitment to the journal.

Editor-in-Chief of Pertanika Journal of Tropical Agricultural Science (JTAS), Professor Tan Soon Guan, completed his tenure with the journal this February after a fruitful nine-year stint in his third consecutive term at the helm of the editorial team.

"I am grateful to Tan Soon Guan for his flawless execution in the production of issue after issue," testifies Pertanika's Chief Executive Editor, Dr Nayan Kanwal, in a tribute to Prof. Tan's diligence and commitment to the journal. "I would like to thank him for his

support and guidance on all issues related to the journal," Dr Nayan adds, pointing out that Prof. Tan worked hard during his term to improve the journal and extend its reputation as a credible scholarly publication.

Pertanika was launched in 1978 as UPM's first academic journal with Dr. J. J. Augustine as Founder Eic (1978-1982). Professor Emeritus Chin Hoong Fong took over in the following year and remained as Eic until 1996, when Professor Ruth Kiew took over for a year before Prof Tan came on board as the journal's fourth Eic.

## New Eic To Continue Pertanika Culture Of Excellence



Professor Dr. Mohd Zamri-Saad: the new in-coming Editor-in-Chief, Pertanika JTAS.

New Editor-in-Chief of Pertanika Journal of Tropical Agricultural Science (JTAS), Professor Dr. Mohd. Zamri Saad, who has been on the journal's editorial board for the last five years, promises to continue the culture of excellence long associated with work ethics and quality related to the journal.

An outstanding researcher who is no new-comer to the veterinary community, Prof Dr. Zamri is part of UPM's history-making team that developed and patented a pneumonic vaccine for goats and sheep in 2013, STVac7. The new vaccine, available in intranasal spray form, uses advanced recombinant technology to destroy bacteria that target the lungs of these farm animals. Prof Dr. Zamri also has to his credit more than 90 publications in refereed journals.

Pertanika Journals

## Forthcoming Articles.....

Journal of Science and Technology

### JST Vol. 24 (1) Jan 2016

**Scaling Group Transformation for MHD Double-Diffusive Flow Past a Stretching Sheet with Variable Transport Properties Taking into Account Velocity Slip and Thermal Slip Boundary Conditions**  
Uddin, M.J., Khan W.A., Ismail, A.I. Md.  
JST-0474-2015

**Morphological and Physico-Chemical Characteristics of Soils in the Tasik Chini Catchment in Pahang, Malaysia**  
Sujaul, I. M., Ismail, B. S., Tayeb M.A., Muhammad Barzani, G., Sahibin, A. R.  
JST-0479-2015

**Development of Integrated Catalytic Membrane-Based Unit for Biofuel Production**  
El-Zanati, E., I Ritchie, S.M.C., 2 Abdallah, H.  
JST-0526-2014

**Beyond Barebones Cloud Infrastructure Services: Stumbling Competitiveness During Economic Turbulence**  
Joseph Ng P.S.  
JST-0531-2014

**Optimisation of Combined Acid and Enzymatic Hydrolysis of Cocoyam Starch to Produce Fermentable Hydrolysate**  
Amenaghawon, N.A.1, Osagie, E.I. and Ogbide, S.E.  
JST-0533-2014

**Simulation of A Bioreactor with An Improved Fermentation Kinetics – Fluid Flow Model**  
Emily Liew Wan Teng and Law Ming Chiat  
JST-0535-2014

**Expression of CsA and its Receptor in Canine Spontaneous Tumours: A Preliminary Finding**  
Norhaifa, G., Nashreg, K. N., Kamarudin, N. H., Bachek, N. F., Ajat, M. M. Hafandj, A., Selvarajah, G. T. and Hezmee, M. N. M.  
JST-0537-2015

**Parotid Oncocytoma in Birt-Hogg-Dube Syndrome: A New Pitfall in 18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Imaging Study**  
Sethu Thakachy Subha1, Abdul Jalil Nordin, Norhafizah Mohtarrudin and Fathinul Fikri Ahmad Saad  
JST-0538-2015

**TRIZ or DFMA Combined With QFD as Product Design Methodology: A Review**  
Rosnani Ginting and Amir Yazid Ali  
JST-0539-2015

**An Introductory Review of Simulation Methods for the Structure of Cementitious Material Hydrates at Different Length Scales**  
Tarighat, A., Zehtab, B., and Tavakoli, D.  
JST-0542-2015

**A Comparative Study of the Group Runs and Side Sensitive Group Runs Control Charts**  
Yew, S.Y., Khoo, M.B.C., Teoh, W.L., Teh, S.Y. and Yeong, W.C.  
JST-0543-2015

**Potential of 3'-Fluoro-3' Deoxythymidine as A Cellular Proliferation Marker in Pet Oncology Examination**  
Hishar H1, R Price, Fathinul Fikri AS, Eddie Lau WF, Assunta C and AJ Nordin  
JST-0544-2015

**Analysis of Bit-Plane Images by using Principal Component on Face and Palmprint Database**  
Therry Z. Lee and David B.L.Bong  
JST-0546-2015

**Classification Using the General Bayesian Network**  
Sau Loong Ang, Hong Choon Ong and Heng Chin Low  
JST-0551-2015

**Potential Impacts of Climate Change on Precipitation and Temperature at Jor Dam Lake**  
Aida Tayebian, Thamer Ahmad Mohammad, Abdul Halim Ghazali, M.A.Malek and Syamsiah bt. Mashohor  
JST-0553-2015

**Submit your paper today! All Pertanika journals are indexed in SCOPUS, EBSCO, DOAJ and ISC. In addition, JST is now indexed in ERA.**



### Paper Submission Instructions

For the forthcoming issues in 2015-16, papers must be submitted only via the Chief Executive Editor's office. Please feel free to contact the chief executive editor at [nayan@upm.my](mailto:nayan@upm.my) for guidance on the Online submission process.

Please find the journal's profile at: <http://www.pertanika.upm.edu.my/>

Don't Miss It!



## Cabaran keluarga bakar semangat dua anggota PALAPES terbaik



Oleh Azman Zakaria  
Foto oleh Noor Azreen Awang

**SERDANG, 1 Sept** - Cabaran daripada anggota keluarga telah membakar semangat dua pelajar Universiti Putra Malaysia (UPM) yang lantas bertekad untuk menempa kejayaan sehingga masing-masing terpilih sebagai Pegawai Kadet Terbaik UPM pada majlis Istiadat Pentauliah Diraja Pegawai Kadet Pasukan Latihan Pegawai Simpanan (PALAPES) Universiti Awam ke-34, baru-baru ini.

Pegawai Rendah Muda Muhammad Syahiran Abd Sukor, 22, yang mengikuti pengajian Bachelor Ekonomi dipilih sebagai Pegawai Kadet Terbaik PALAPES Darat UPM, manakala Pegawai Kadet Kanan Nurul Aini Amkaromi, 24, pelajar pengajian Bachelor Sains Hortikultur dipilih sebagai Pegawai Kadet Terbaik PALAPES Laut UPM.

Muhammad Syahiran berkata, abangnya yang juga seorang anggota tentera mencabar beliau dengan kata-kata bahawa susah sekiranya

memegang jawatan pegawai.

"Kata-katanya itu membuatkan saya menanam azam untuk berjaya. Saya pula mencabar diri sendiri untuk berjaya dalam PALAPES. Hasilnya saya sendiri tidak menjangka terpilih sebagai Pegawai Kadet Terbaik Darat," katanya dalam temu bual.

"Ketika mengikuti kem latihan tahunan, saya asyik dipilih menjadi ketua, membuatkan saya merungut dan memberitahu pegawai bahawa saya merasakan seperti tidak adil kerana kerap menjadi ketua sedangkan pentauliah membabitkan ramai anggota, dan merasakan penggiliran ketua lebih wajar ketika kem latihan itu.

"Bagaimanapun ketika jurulatih meminta biodata, saya tertanya-tanya ketika masa semakin hampir untuk hari pentauliah, barulah saya tahu dipilih sebagai Pegawai Kadet Terbaik PALAPES Darat," katanya.

Katanya, beliau bersyukur, lebih-lebih lagi kerana beliau juga dipilih sebagai ketua perbarisan pada majlis istiadat perbarisan pentauliah itu.

Katanya, selepas dimaklumkan mengenai pemilihannya itu, beliau menghubungi kedua ibu bapanya.

Pada majlis Istiadat Pentauliah Diraja PALAPES itu, seramai 1,620 anggota membabitkan 24 detasmen dari 18 universiti seluruh negara menerima pentauliah daripada Sultan Selangor Sultan Sharafuddin Idris Shah yang juga Tuanku Canselor UPM.

Bagi Nurul Aini pula, kejayaan beliau terpilih sebagai Pegawai Kadet Terbaik PALAPES Laut adalah sesuatu yang manis lebih-lebih lagi mengatasi beberapa rakan kadet lelaki, dan sebagai menyahut cabaran abangnya yang kecewa selepas Nurul Aini gagal dalam permohonan untuk mengikuti pengajian di Akademi Laut Malaysia (ALAM).

"Abang menyuruh saya memohon untuk mengikuti pengajian di ALAM tetapi saya tidak dapat. Lantas saya memasuki PALAPES ketika di UPM. "Saya terkejut apabila diberitahu dipilih sebagai Pegawai Kadet Terbaik PALAPES Laut UPM kerana bersaing dengan ramai calon lelaki," katanya yang bercita-cita bertugas sebagai anggota tentera selepas menamatkan pengajian dan melapor diri di KD Sri Klang.

Selepas mendapat tawaran menyambung pengajian di UPM Serdang daripada UPM cawangan Bintulu, beliau terus berhasrat untuk menyertai PALAPES Darat tetapi kemudian mengubahnya dan memohon menyertai PALAPES Laut ekoran kawan-kawannya memohon menyertai PALAPES Laut.

"Saya amat gembira apabila berjaya dalam permohonan itu dalam masa yang sama kecewa kerana rakan saya gagal dalam permohonan untuk mengikuti PALAPES Laut," katanya. - UPM



## Mohamad Syzrul dipilih YDP MPP UPM sesi 2015/2016

Oleh Noor Eszereen Juferi  
Foto Marina Ismail

**SERDANG, 12 Okt** - Pelajar Fakulti Ekologi Manusia, Universiti Putra Malaysia (UPM), Mohamad Syzrul Yahya dipilih sebagai Yang Dipertua (YDP) Majlis Perwakilan Pelajar (MPP) UPM Sesi 2015/2016 di sini.

Mohd Syzrul menerima simbolik penyerahan watak pelantikan daripada Naib Canselor UPM, Prof. Dato' Dr. Mohd. Fauzi Ramlan, pada Majlis Penyerahan Watak Pelantikan dan Apresiasi MPP UPM Sesi 2015/2016.

Majlis disaksikan oleh Timbalan Naib Canselor (Hal Ehwal Pelajar & Alumni), Prof. Dato' Dr.

Mohammad Shatar Sabran; Timbalan Naib Canselor (Akademik & Antarabangsa), Prof. Dato' Dr. Mad Nasir Shamsudin; dan Timbalan Naib Canselor (Penyelidikan & Inovasi), Prof. Dato' Dr. Mohd. Azmi Mohd Lila.

Selain itu, Naib Yang Dipertua MPP UPM, Muhd Zikri Zulkiflee; Setiausaha Agung MPP UPM, Maisarah Mohamed Zakaria; dan Bendahari Kehormat MPP UPM, Song Yu Hui, turut menerima watak pelantikan masing-masing.

Majlis itu turut menyaksikan bacaan ikrar oleh 45 pelajar ahli MPP yang juga barisan kepimpinan baharu MPP

## Dikir Barat, Kuda Kepang Kolej 13 harumkan nama Malaysia di Jepun

Oleh Azman Zakaria

**FUKUOKA (JEPUN), 16 Sept** - Universiti Putra Malaysia melalui

Kolej Tiga Belas, Fakulti Pengajian Pendidikan dan Fakulti Ekologi telah menayakan persembahan Dikir Barat dan Kuda Kepang di Jepun bagi tujuan

mempromosi kaedah terapi kanak-kanak autism dan Sindrom Down melalui pendekatan muzik tradisional. Delegasi seramai 25 orang



peserta yang menyertai program pengantarabangsaaan, Look East Policy Program Siri 3, anjuran Kolej Tiga Belas itu menarik minat seramai 1,000 penonton di konsert khas bersama kumpulan muzik kanak-kanak Sindrom Down Jepun, Twinkle Cats di Bandar Iizuka, Fukuoka, Jepun, baru-baru ini.

Kejayaan itu adalah rentetan daripada persembahan khas bersama Persatuan KIWANIS di Kuantan, Pahang pada Februari 2015 di hadapan Tengku Puan Pahang, dan bersama pasukan Kuda Kepang mewakili Malaysia di peringkat antarabangsa anjuran Bentley Music Malaysia di Damansara pada Mei 2015.

Sebelum ini, pasukan Dikir Barat Kolej 13 telah menjuarai pertandingan Dikir Barat inter kolej selama tiga tahun berturut-turut dan mewakili UPM ke pertandingan inter varsiti awam juga selama tiga tahun berturut-turut.

Pada April 2014, ia telah membuat persembahan amal di Kitakyushu, Jepun yang menarik minat pakar untuk mengembangkan potensinya.

Bagi Kuda Kepang pula, ini adalah kali pertama ia dijadikan instrumen untuk kajian terapi muzik bagi kanak-kanak Sindrom Down di Jepun.

Program ini adalah hasil inspirasi Naib Canselor UPM, Prof. Dato' Dr. Mohd. Fauzi Ramlan dan Pengarah

Malaysia Super Satellite Campus (UPM-Kyutech), Prof. Dr. Yoshihito Shirai.

Kolaborasi seperti ini merupakan salah satu elemen penting yang membantu menayakan agenda pengantarabangsaaan UPM dalam mencapai sasaran Putra Global 200.

Pegawai penyelaras program, Prof. Madya Dr. Hazandy Abdul Hamid berkata, peluang ini telah menyemarakkan semangat cintakan negara bersempena sambutan Hari Kemerdekaan negara yang ke-58.

Pengetua Kolej Tiga Belas, Prof. Madya Dr. Arifin Abdu, pula berharap program ini dapat melahirkan graduan berdaya saing, holistik dan membina personaliti unggul selari dengan lonjakan pertama PelanPendikan Tinggi Malaysia (2015-2025).

Program ini juga diharap dapat meningkatkan jaringan kejasama antarabangsa peserta yang akhirnya melahirkan graduan berfikir global sekaligus meningkatkan kebolehpasaran graduan.

Program seumpama ini membuktikan bahawa seni dan budaya mempunyai potensi yang lebih luas selain hiburan, iaitu terapi pemulihan dan pembangunan kemahiran insaniah pelajar, serta menjadi penghubung antara mahasiswa dan masyarakat di areana tempatan dan antarabangsa. - UPM





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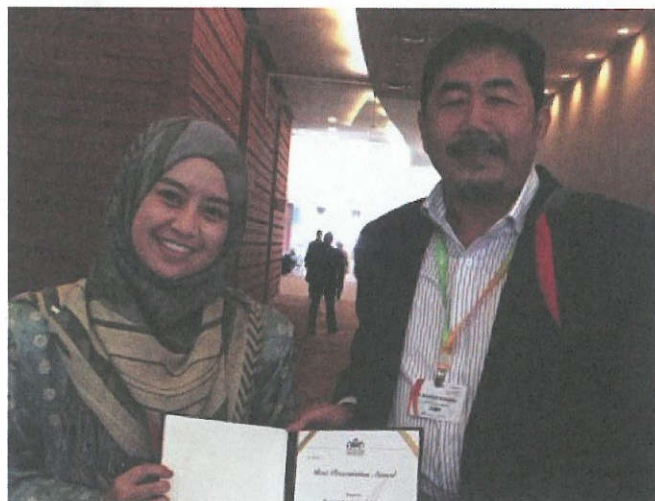
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## Prof. Ahmad dan Dayang Nur dipilih pembentang terbaik

Oleh Azman Zakaria

**PYEONGCHANG, (KOREA)** - Kertas kerja hasil bersama Timbalan Pengarah Institut Perhutanan Tropika dan Produk Hutan (INTROP), UPM, Prof. Dr. Ahmad Ainuddin Nuruddin dan pelajar Master, Dayang Nur Sakinah Musa dipilih sebagai pembentangan terbaik dalam sesi Fuel Management, Fire Regime pada Persidangan Antarabangsa ke-6 Kebakaran Kawasan Liar 2015 (IWFC 2015).

Kertas kerja yang bertajuk Impact of Burning on Physical Characteristics of Tropical

Peat itu dibentangkan oleh Dayang Nur Sakinah. Beliau kemudian menerima sijil yang disampaikan oleh Timbalan Menteri Perhutanan Korea.

Selain itu, Prof. Dr. Ahmad Ainuddin turut membentangkan dua kertas kerja.

Beliau juga dilantik menjadi moderator kepada satu daripada sembilan sesi selari yang membincangkan sembilan tajuk penting berkaitan kebakaran kawasan liar.

Persidangan bertemakan 'Fire in the Past, Fire in the Future' itu berlangsung dari 14-16 Oktober lalu dengan dihadiri lebih 3,000 peserta dari w80 negara.

## Dr. Normi menang Women in Science National Fellowship



Oleh Syfarida Zaki

Foto oleh Noor Azreen Awang

**KUALA LUMPUR, 8 Okt** - Pensyarah Kanan Fakulti Bioteknologi dan Sains Biomolekul, Universiti Putra Malaysia (UPM), Dr. Normi Mohd Yahaya memenangi L'Oréal-UNESCO For Women in Science National Fellowship Award 2015 sempena sambutan L'Oréal Malaysia yang ke-10. Program yang bertemakan change the numbers itu bertujuan menggalakkan peranan

wanita dalam bidang sains yang mengiktiraf kecemerlangan sebagai inspirasi kepada generasi akan datang.

Beliau yang menerima anugerah daripada Menteri Pendidikan Malaysia, Dato' Seri Mahdzir Khalid merupakan antara tiga penerima anugerah itu. Masing-masing menerima hadiah geran penyelidikan berjumlah RM30,000 dan sijil penghargaan.

Dr. Normi dinobatkan sebagai pemenang atas usaha beliau

menjalankan penyelidikan mengenai mengatasi kerintangan antimikrob dengan menghasilkan peptida baharu sebagai agen untuk melawan patogen di kalangan bakteria yang kini semakin meningkat di seluruh dunia.

Beliau mereka bentuk dan menghasilkan peptida sebagai ejen baharu untuk merencatkan enzim metalo-beta-laktamase agar ia tidak boleh mengurai antibiotik, justeru menangani masalah kerintangan antibiotik di kalangan bakteria.

Penerima lain anugerah itu ialah Dr. Oon Chern Ein dari Universiti Sains Malaysia dan Dr. Wan Wardatul Amani Wan Salim dari Universiti Islam Antarabangsa Malaysia.

Ketua panel juri, Prof. Datin Paduka Dr. Aini Ideris berkata penilaian dibuat atas kriteria proposal yang dicadangkan seperti nilai keaslian tujuan penyelidikan, sumbangan penyelidikan kepada sains, metodologi, pencapaian akademik dan kualiti projek keseluruhan.

"Tahun ini menyaksikan penyertaan yang paling ramai oleh ahli sains wanita dalam pelbagai bidang sains iaitu 149 penyertaan.



## UCTC dan Fakulti Pertanian raih tempat pertama dua anugerah projek komuniti negara

Oleh Nik Muhamad Adnan  
Foto Amirulzaman Kamaruzzaman

**PUTRAJAYA 14 Ogos** - Universiti Putra Malaysia (UPM) mengungguli tempat pertama dalam dua kategori projek komuniti berimpak tinggi pada majlis Anugerah Penghargaan Pusat Transformasi Komuniti Universiti (UCTC) 2015 sempena Program Higher Education Week Malaysia (HEWM 2015) yang berlangsung dari 13 hingga 16 Ogos lalu.

Anugerah, yang disampaikan Ketua Setiausaha Kementerian Pendidikan Tinggi, Dato' Seri Ir. Dr. Zaini Ujang di Kementerian Pengiktirafan itu diberikan

kepada Pengarah UCTC UPM, Prof. Madya Dr. Hawa ZE Jaafar selaku ketua projek *Introducing Sustainable and Innovative Propagation Technique for High Quality and Authenticated Kacip Fatimah Plant Materials*.

Beliau memenangi anugerah di bawah kategori Pembangunan Alam Sekitar dan menerima wang tunai RM3,000, piala dan sijil penghargaan.

Anugerah diberikan atas sumbangan beliau menghasilkan varieti sahik Kacip Fatimah menggunakan keratan daun dan teknik pembiakan benih sebanyak sembilan hingga 15 kali ganda secara konsisten di samping memulihara alam sekitar dan biodiversiti negara.

Anugerah Penghargaan University Community Transformation Centre (UCTC) bertujuan memberi pengiktirafan dan penghargaan kepada projek-projek komuniti yang berjaya dihasilkan berdasarkan prinsip National Blue Ocean Strategy (NBOS) iaitu berimpak tinggi, pelaksanaan pantas, kos minimum dan mapan.

Pada majlis yang sama, Fakulti Pertanian UPM juga memenangi tempat pertama anugerah Rakan UCTC Cemerlang bagi kategori Persatuan Pelajar dan menerima hadiah wang tunai RM5,000, piala dan sijil penghargaan.



## UPM raih tiga emas dan Anugerah Khas di Bioinnovation Awards

Oleh Hafiza Hussin

Foto oleh Saleha Haron

**KUALA LUMPUR, 3 Sept** - Produk penyelidikan Prof. Madya Dr. Nazlina Shaari dari Jabatan Rekabentuk Industri, Fakulti Rekabentuk dan Senibina, *Utilizing Sago Waste as a Natural Ecopaste in Textile Prints* meraih pingat emas dan Anugerah Khas, 'Biotechnology Innovation of the Year' di Bioinnovation Awards baru-baru ini.

Beliau menerima wang RM2,000.

Penyelidikan itu merupakan inovasi baharu dalam industri percetakan batik bagi menggantikan lilin paraffin semasa mencanting dan mencetak batik, yang bertujuan menggantikan bahan di dalam proses pembuatan batik kepada yang lebih selamat mesra alam.

Secara keseluruhannya, lima penyelidik UPM berjaya membawa pulang tiga pingat

emas, tiga pingat perak dan satu Anugerah Khas pada majlis anugerah itu.

BioInnovation Awards diadakan bersempena pameran inovasi Pharma + Bio Asia 2015 yang dianjurkan oleh Malaysian Association of Research Scientist (MARS) dan Professional Trade Exhibition and Meeting Planners (PROTEMP) dari 2 hingga 4 September lalu di KLCC.

Ia bertujuan memberi inspirasi inovasi dalam bidang bioteknologi serta sebagai penghargaan kepada pencapaian individu dan organisasi dalam usaha membangunkan idea dalam bidang berkenaan.

Prof. Dr. Raja Noor Zaliha Raja Abd. Rahman dari Pusat Penyelidikan Teknologi Enzim dan Mikrob, Fakulti Bioteknologi dan Sains Biomolekul juga memenangi pingat emas dengan inovasi *Thermostable Organic Solvent-tolerant Protease*.

Turut memenangi pingat emas ialah Prof. Madya Dr. Md. Sabri Mohd Yusoff dari Fakulti Perubatan Veterinar dengan inovasi *Feed-based Recombinant Vaccine*, iaitu vaksin untuk penyakit streptococcosis yang disebabkan oleh bakteria *Streptococcus agalactiae* yang kebiasaannya menyerang ikan air tawar.

Sementara itu, Dr. Fakhru Zaman Rokhani dari Institut Penyelidikan Produk Halal memenangi pingat perak dengan inovasi *Lard Detection Based on Impedance Spectroscopy*, iaitu kit untuk menganalisis kandungan lemak khinzir (lard) daripada kandungan lemak atau minyak.

Prof. Madya Dr. Rosnah Shamsudin dari Jabatan Kejuruteraan Proses dan Makanan, Fakulti Kejuruteraan pula membawa pulang dua pingat perak dengan produk *Drupe Dehusker* dan *Sesame Cracker Machine*.